

FILE ID**EVLMAIN

M 6

```
1 0001 0 XTITLE 'DECnet Event Logger Main Module'
2 0002 0 MODULE EVLMAIN (
3 0003 0   LANGUAGE (BLISS32),
4 0004 0   IDENT = 'V04-000',
5 0005 0   MAIN = EVLSMAIN
6 0006 0   ) =
7 0007 1 BEGIN
8 0008 1
9 0009 1 ****
10 0010 1 ****
11 0011 1 *
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29 0029 1 *
30 0030 1 *
31 0031 1 ****
32 0032 1 *
33 0033 1 *
34 0034 1 ++
35 0035 1 FACILITY: DECnet Event Logging (EVL)
36 0036 1
37 0037 1 ABSTRACT:
38 0038 1
39 0039 1 This module contains the main entry for the event logger.
40 0040 1 A few routines of general utility are in the module too.
41 0041 1
42 0042 1 ENVIRONMENT: VAX/VMS Operating System
43 0043 1
44 0044 1 AUTHOR: Darrell Duffy , CREATION DATE: 16-June-1980
45 0045 1
46 0046 1 MODIFIED BY:
47 0047 1
48 0048 1   V001      Tim Halvorsen 25-Jun-1981
49 0049 1   Purge working set to minimum before hibernating,
50 0050 1   to limit system physical memory usage while not
51 0051 1   doing anything.
52 0052 1   Change references to ASCID macro to use %ASCID.
53 0053 1 --
```

```
55      0054 1 %SBTTL 'Definitions'  
56  
57      0056 1 !  
58      0057 1 ! TABLE OF CONTENTS:  
59  
60      0059 1 !  
61      0060 1 FORWARD ROUTINE  
62          EVL$MAIN  
63          EVL$INITLOG  :, NOVALUE, ! Main entry  
64          EVL$PRINTLOG : NOVALUE ! Initialize for debug logging  
65          : ! Print data messages to log file  
66  
67      0066 1 !  
68      0067 1 ! INCLUDE FILES:  
69  
70      0068 1 !  
71      0069 1 !  
72      0070 1 LIBRARY 'LIBS:EVLIBRARY'; ! EVL definitions  
73      0071 1 LIBRARY 'SYSSLIBRARY:STARLET'; ! VMS common definitions  
74  
75      0072 1 !  
76      0073 1 ! OWN STORAGE:  
77  
78      0074 1 !  
79      0075 1 !  
80      0076 1 !  
81      0077 1 ! GLOBAL  
82          EVL$GL_LOGMASK : BBLOCK [8] ! Logging control mask  
83  
84      0078 1 !  
85  
86      0079 1 !  
87      0080 1 !  
88      0081 1 !  
89      0082 1 ! EXTERNAL REFERENCES:  
90  
91      0083 1 !  
92  
93      0084 1 !  
94      0085 1 EXTERNAL  
95          EVL$GW_NETSHCHAN : WORD, ! Channel to net for show  
96          EVL$B_RCVDONE : BYTE, ! True if receive inactive  
97          EVL$GB_TRANSDONE : BYTE; ! True if transmitter inactive  
98  
99      0086 1 !  
100      0087 1 !  
101      0088 1 !  
102      0089 1 !  
103      0090 1 ! EXTERNAL ROUTINE  
104          EVL$RECEIVE : NOVALUE, ! Activate the receiver  
105          EVL$TRANSMIT : NOVALUE, ! Activate the transmitter  
106          WKQSDO_WORK_ITEM :, NOVALUE ! Perform a work item in queue  
107          EVL$OBTAINNETCHAN : NOVALUE ! Obtain a channel to net  
108  
109      0091 1 !  
110      0092 1 !  
111      0093 1 !  
112      0094 1 !  
113      0095 1 !  
114  
115      0096 1 ! EXTERNAL ROUTINE  
116  
117      0097 1 !  
118      0098 1 !  
119      0099 1 LIB$PUT_OUTPUT : ADDRESSING_MODE (GENERAL),  
120      0100 1 LIB$CVT_HTB : ADDRESSING_MODE (GENERAL)  
121  
122      0101 1 !  
123  
124      0102 1 !
```

105 0103 1 %SBTTL 'EVLSMAIN Main Entry'
106 0104 1 GLOBAL ROUTINE EVLSMAIN =
107 0105 1
108 0106 1 ++
109 0107 1 FUNCTIONAL DESCRIPTION:
110 0108 1
111 0109 1 This is the main entry point for the event logger.
112 0110 1 It calls the initialization routines
113 0111 1 and sits in a loop performing work from the work queue.
114 0112 1
115 0113 1 FORMAL PARAMETERS:
116 0114 1
117 0115 1 NONE
118 0116 1
119 0117 1 IMPLICIT INPUTS:
120 0118 1 NONE
121 0119 1
122 0120 1
123 0121 1 IMPLICIT OUTPUTS:
124 0122 1 NONE
125 0123 1
126 0124 1
127 0125 1 ROUTINE VALUE:
128 0126 1 COMPLETION CODES:
129 0127 1
130 0128 1 NONE
131 0129 1
132 0130 1 SIDE EFFECTS:
133 0131 1
134 0132 1 NONE
135 0133 1
136 0134 1 --
137 0135 1
138 0136 2 BEGIN
139 0137 2
140 0138 2 EVLSINITLOG (); ! Initialize for debug logging
141 0139 2 EVLSOBTAINNETCHAN (EVLSGW_NETSHCHAN); ! Obtain a channel to net
142 0140 2 EVLSRECEIVE (); ! Initialize receiver portion
143 0141 2 EVLSTRANSMIT (); ! Initialize transmitter portion
144 0142 2
145 0143 3 WHILE NOT (.EVLSB_RCVDONE AND .EVLSGB_TRANSDONE) ! Until both sides finish.
146 0144 2 DO
147 0145 3 BEGIN
148 0146 3 SPURGWS(INADR=PLIT(0,XX'7FFFFFFF')); ! Purge entire working set
149 0147 3 SHIBER; ! Wait on some work to do
150 0148 3 WHILE WKQSDO_WORK_ITEM () DO; ! Do work til empty queue
151 0149 2 END;
152 0150 2
153 0151 2 RETURN TRUE; ! Exit suces fully
154 0152 1 END;

.TITLE EVLM MAIN DECnet Event Logger Main Module
.IDENT \V04-000\
.PSECT SPLIT\$,NOWRT,NOEXE,2

EVLMAIN
V04-000

DECnet Event Logger Main Module EVL\$MAIN Main Entry

D 7
16-Sep-1984 01:35:04 VAX-11 BLiss-32 V4.0-742 Page 13
14-Sep-1984 12:28:48 DISK\$VMSMASTER:[EVL.SRC]EVLMAIN.B32,1 4

EVL
V04

```

7FFFFFFF 00000002 00000000 00004 P.AAA: .LONG 2
7FFFFFFF 00000000 00004 P.AAA: .LONG 0, 2147483647
:
.PSECT $GLOBALS,NOEXE,2

00000 EVL$GL_LOGMASK:::
.BLKB 8

.EXTRN EVL$GW_NETSHCHAN
.EXTRN EVL$SB_RCVDONE, EVL$GB_TRANSDONE
.EXTRN EVL$RECEIVE, EVL$TRANSMIT
.EXTRN WKQ$DO_WORK_ITEM
.EXTRN EVL$OBTAINNETCHAN
.EXTRN LIB$PUT_OUTPUT, LIB$CVT_MTB
.EXTRN SYSSPURGWS, SYSSHIBER

.PSECT $CODES,NOWRT,2

CF 00000 00000000 .ENTRY EVL$MAIN, Save nothing 0104
CF 0000G 00 FB 00002 CALLS #0, EVL$INITLOG 0138
CF 01 CF 9F 00007 PUSHAB EVL$GW_NETSHCHAN 0139
CF 01 FB 0000B CALLS #1, EVL$OBTAINNETCHAN
CF 00 FB 00010 CALLS #0, EVL$RECEIVE 0140
CF 00 FB 00015 CALLS #0, EVL$TRANSMIT 0141
05 0000G CF E9 0001A 1$: BLBC EVL$SB_RCVDONE, 2$ 0143
1C 0000G CF E8 0001F BLBS EVL$GB_TRANSDONE, 4$ 0146
00 0000' CF 9F 00024 2$: PUSHAB P.AAA
00 01 FB 00028 CALLS #1, SYSSPURGWS 0148
00 00 FB 0002F CALLS #0, SYSSHIBER
00 00 FB 00036 3$: CALLS #0, WKQ$DO_WORK_ITEM
DC 50 E9 0003B BLBC R0, 1$ 0151
F6 11 0003E BRB 3$ 0152
50 01 D0 00040 4$: MOVL #1, R0
04 00043 RET
:

```

; Routine Size: 68 bytes, Routine Base: \$CODES + 0000

```
: 156      0153 1 %SBTTL 'EVLSINITLOG Initialization debug logging'  
: 157      0154 1 ROUTINE EVLSINITLOG : NOVALUE =  
: 158      0155 1  
: 159      0156 1 ++  
: 160      0157 1 FUNCTIONAL DESCRIPTION:  
: 161      0158 1  
: 162      0159 1 This routine initializes the internal logging flags for EVL debugging.  
: 163      0160 1 The logical name EVLSLOG is translated to obtain a hex number which is  
: 164      0161 1 converted to binary. Each bit of the mask controls information to  
: 165      0162 1 be logged.  
: 166      0163 1  
: 167      0164 1 FORMAL PARAMETERS:  
: 168      0165 1  
: 169      0166 1  
: 170      0167 1  
: 171      0168 1  
: 172      0169 1  
: 173      0170 1  
: 174      0171 1  
: 175      0172 1  
: 176      0173 1  
: 177      0174 1  
: 178      0175 1  
: 179      0176 1  
: 180      0177 1  
: 181      0178 1  
: 182      0179 1  
: 183      0180 1  
: 184      0181 1  
: 185      0182 1  
: 186      0183 1  
: 187      0184 1  
: 188      0185 1 --  
: 189      0186 1  
: 190      0187 2  
: 191      0188 2  
: 192      0189 2  
: 193      0190 2      ! Size of the result buffer  
: 194      0191 2  
: 195      0192 2  
: 196      0193 2  
: 197      0194 2      ! Buffer for the translation  
: 198      0195 2      ! Descriptor for the buffer  
: 199      0196 2  
: 200      0197 2  
: 201      0198 2      ! Initialize the logging mask  
: 202      0199 2      ! Setup the descriptor  
: 203      0200 2  
: 204      0201 2  
: 205      0202 2      ! We must get a translation  
: 206      0203 2  
: 207      P 0204 3      ! Translate the name once  
: 208      P 0205 3  
: 209      P 0206 3      ! This is the logical name  
: 210      P 0207 3      ! Place the length here  
: 211      P 0208 3      ! Place the translation here  
: 212      0209 4
```

```

EVLMAIN          DECnet Event Logger Main Module      16-Sep-1984 01:35:04      VAX-11 Bliss-32 v4.0-742      Page 6
VO4-000          EVL$INITLOG Initialization debug logging 14-Sep-1984 12:28:48      DISKS$VMSMASTER:[EVL.SRC]EVLMAIN.B32;1 (4)

213 0210 3      )
214 0211 2      EQL
215 0212 2      SSS_NORMAL
216 0213 2      THEN
217 0214 2      LIB$CVT_HTB
218 0215 2      (
219 0216 2      .RSLDSC [0];
220 0217 2      .RSLDSC [1];
221 0218 2      EVL$GL_LOGMASK
222 0219 2      )
223 0220 2      :
224 0221 2      :
225 0222 1      END;

```

EVL
V04

; Routine Size: 60 bytes, Routine Base: SCODES + 0044

```

: 227 0223 1 %SBTTL 'EVLSPRINTLOG Print a Data Message to the Log'
: 228 0224 1 GLOBAL ROUTINE EVL$PRINTLOG (LOGBIT, HEADDSC, EXTRADSC, DATADSC) : NOVALUE =
: 229 0225 1
: 230 0226 1 ++
: 231 0227 1 FUNCTIONAL DESCRIPTION:
: 232 0228 1
: 233 0229 1 Check the logging control mask and if the corresponding bit is set
: 234 0230 1 then print the special message to the log file. The message
: 235 0231 1 has a header and optionally some extra text which explains the
: 236 0232 1 logged message.
: 237 0233 1
: 238 0234 1 FORMAL PARAMETERS:
: 239 0235 1
: 240 0236 1 LOGBIT Value of the logging bit to control the logging
: 241 0237 1 as a bit number
: 242 0238 1 HEADDSC Address of a descriptor of the header text
: 243 0239 1 EXTRADSC Address of a descriptor of the extra text (optional)
: 244 0240 1 DATADSC Address of a descriptor of the data to be converted
: 245 0241 1 and printed
: 246 0242 1
: 247 0243 1 IMPLICIT INPUTS:
: 248 0244 1 EVL$GL_LOGCONTROL
: 249 0245 1
: 250 0246 1 IMPLICIT OUTPUTS:
: 251 0247 1
: 252 0248 1
: 253 0249 1 NONE
: 254 0250 1
: 255 0251 1 ROUTINE VALUE:
: 256 0252 1 COMPLETION CODES:
: 257 0253 1
: 258 0254 1
: 259 0255 1
: 260 0256 1 SIDE EFFECTS:
: 261 0257 1
: 262 0258 1
: 263 0259 1
: 264 0260 1 --
: 265 0261 1
: 266 0262 2 BEGIN
: 267 0263 2
: 268 0264 2 MAP
: 269 0265 2 HEADDSC : REF BBLOCK.
: 270 0266 2 EXTRADSC : REF BBLOCK.
: 271 0267 2 DATADSC : REF BBLOCK
: 272 0268 2 :
: 273 0269 2
: 274 0270 2 LITERAL
: 275 0271 2 FAOSIZ = 256 ! The print buffer
: 276 0272 2 :
: 277 0273 2
: 278 0274 2 LOCAL
: 279 0275 2 FAOBUF : VECTOR [FAOSIZ, BYTE], ! Print buffer
: 280 0276 2 FAOLST : VECTOR [100], ! List of args to $FAOL
: 281 0277 2 OUTDSC : VECTOR [2], ! Descriptor of the output line
: 282 0278 2 BYTES, ! Counter for bytes written
: 283 0279 2 CTR : SIGNED, ! A random counter

```

```

284 0280 2 PTR,          ! A random pointer
285 0281 2 ITR_CNT      ! Temporary iteration count
286 0282 2
287 0283 2
288 0284 2
289 0285 2 ! See if this text should be logged, and if not then return
290 0286 2
291 0287 2
292 0288 2 IF NOT .EVLSGL_LOGMASK [0, .LOGBIT, 1, 0]
293 0289 2 THEN
294 0290 2     RETURN
295 0291 2
296 0292 2
297 0293 2 OUTDSC [0] = FAOSIZ;      ! Initialize the output buffer dsc
298 0294 2 OUTDSC [1] = FAOBUF;
299 0295 2 FAOLST [0] = .HEADDSC;    ! Header text
300 0296 2 FAOLST [1] = .DATADSC [DSC$W_LENGTH]; ! Data length
301 0297 2 FAOLST [2] =           ! Extra text dsc
302 0298 2
303 0299 2     IF .EXTRADSC EQL 0
304 0300 2     THEN
305 0301 2         XASCID ''
306 0302 2     ELSE
307 0303 2         .EXTRADSC
308 0304 2
309 P 0305 2 $FAOL          ! Write the header out
310 P 0306 2
311 P 0307 2     CTRSTR = XASCID '!/ !AS (length = !UL bytes)!/ !AS!/'.
312 P 0308 2     OUTLEN = OUTDSC [0],
313 P 0309 2     OUTBUF = OUTDSC,
314 P 0310 2     PRMLST = FAOLST
315 0311 2
316 0312 2     LIB$PUT_OUTPUT (OUTDSC);
317 0313 2
318 0314 2     CTR = .DATADSC [DSC$W_LENGTH];      ! Size of message
319 0315 2     PTR = .DATADSC [DSC$A_POINTER];    ! Its address
320 0316 2     WHILE .CTR GTR 0                  ! Process it all
321 0317 2     DO
322 0318 2         BEGIN
323 0319 2             OUTDSC [0] = FAOSIZ;          ! Set a descriptor
324 0320 2             OUTDSC [1] = FAOBUF;
325 0321 2             ITR_CNT = MIN (.CTR, 20);      ! Get byte count
326 0322 2             FAOLST [0] = .ITR_CNT;          ! Add count parameter
327 0323 2             FAOLST [.ITR_CNT+1] = .ITR_CNT;
328 0324 2             FAOLST [(.ITR_CNT+1)*2] = .ITR_CNT;
329 0325 2             INCRU IDX FROM 1 TO .ITR_CNT      ! A few bytes at a time
330 0326 3             DO
331 0327 4                 BEGIN
332 0328 4                     FAOLST [.IDX] = (.PTR) <0, 8, 0>; ! One for the hex
333 0329 4                     FAOLST [.IDX + .ITR_CNT+1] = (.PTR) <0, 8, 0>; ! Decimal
334 0330 4                     FAOLST [2*(.IDX + .ITR_CNT)+1] = 1;      ! One for character
335 0331 4                     FAOLST [2*(.IDX + .ITR_CNT)+1 + 1] = .PTR;
336 0332 4                     PTR = .PTR + 1;          ! Next one
337 0333 4                     CTR = .CTR - 1;          ! One less
338 0334 4
339 0335 3
340 0336 3

```

```
341 P 0337 3
342 P 0338 3
343 P 0339 3
344 P 0340 3
345 P 0341 3
346 P 0342 3
347 P 0343 3
348 P 0344 3
349 P 0345 3
350 P 0346 2
351 P 0347 1
END: SFAOL
{
    CTRSTR = %ASCID '!#(4XB)!/#(4UB)!/#(4AF)!/',
    OUTLEN = OUTDSC [0],
    OUTBUF = OUTDSC,
    PRMLST = FAOLST
};

LIB$PUT_OUTPUT (OUTDSC);    ! Write to SYSSOUTPUT
END;
```

.PSECT SPLIT\$,NORT,NOEXE,2

74 21	67 29	6E 73	65 65	6C 74	28 79	20 62	20 20	53 4C	41 53	21 41	20 21	20 3D	2F 20	21 68	00000000. 010E0000.	0001C 0001C 00020	P.AAE: P.AAD: .ADDRESS	.BLKB .LONG P.AAE	0 17694720
67 29	65 73	65 65	6C 74	28 79	20 62	20 20	53 4C	41 53	21 41	20 21	20 3D	2F 20	21 68	00033 00042 00048	P.AAG: .ASCII .ASCII	\!/_!AS \<0>	(length = !UL bytes)!/_!AS!/-		
42 2F	55 21	34 29	28 46	23 41	21 34	2F 28	21 23	29 21	42 20	58 20	34 20	28 2F	23 21	21 29	00000000. 010E0026. 00000000. 00050	0004C 00054 00063 00072	P.AAF: P.AAI: .ASCII .ADDRESS	.ASCII .LONG P.AAG	<0> 17694758
21	29	46	41	34	28	23	21	29	42	58	34	28 2F	23 21	21 29	00000000. 010E001E. 00000000.	00074 00078	P.AAH: .ADDRESS	.LONG P.AAI	17694750

.EXTRN SYSSFAOL

.PSECT SCODES,NOWRT,2

EVLMAIN
V04-000DECnet Event Logger Main Module
EVLSPRINTLOG Print a Data Message to the LogJ 7
16-Sep-1984 01:35:04
14-Sep-1984 12:28:48VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EVL.SRC]EVLMAIN.B32:1Page 10
(5)EVL
V04

			5E DD 00059	PUSHL	SP	0312
	67		01 FB 0005B	CALLS	#1, LIB\$PUT_OUTPUT	:
	53		62 3C 0005E	MOVZWL	(R2), CTR	0314
	55	04	A2 D0 00061	MOVL	4(R2), PTR	0315
			53 D5 00065	TSTL	CTR	0316
			72 15 00067	BLEQ	8\$	
	04	6E	0100	MOVZWL	#256, OUTDSC	0319
		AE	FF00	MOVAB	FAOBUF, OUTDSC+4	0320
	50		53 D0 00074	MOVL	CTR, R0	0321
		14	50 D1 00077	CMPL	R0, #20	
			03 15 0007A	BLEQ	5\$	
			14 D0 0007C	MOVL	#20, R0	
	50		50 D0 0007F	MOVL	RO, ITR_CNT	
	52	08	52 D0 00082	MOVL	ITR_CNT, FAOLST	0322
	0C AE42		52 D0 00086	MOVL	ITR_CNT, FAOLST+4[ITR_CNT]	0323
	52		01 78 0008B	ASHL	#1, ITR_CNT, R0	0324
	10 AE40		52 D0 0008F	MOVL	ITR_CNT, FAOLST+8[R0]	
		51	01 D0 00094	MOVL	#1, IDX	0325
			26 11 00097	BRB	7\$	
	50	08 AE41	65 9A 00099	MOVZBL	(PTR), FAOLST[IDX]	0328
		51	52 C1 0009E	ADDL3	ITR_CNT, IDX, R0	0329
	0C AE40		65 9A 000A2	MOVZBL	(PTR), FAOLST+4[R0]	
	54		8142 9E 000A7	MOVAB	(IDX)+[ITR_CNT], R4	0330
	50	54	01 78 000AB	ASHL	#1, R4, R0	
	0C AE40		01 D0 000AF	MOVL	#1, FAOLST+4[R0]	
	50	54	01 78 000B4	ASHL	#1, R4, R0	0331
	10 AE40		85 9E 000B8	MOVAB	(PTR)+, FAOLST+8[R0]	
		52	53 D7 000BD	DECL	CTR	0333
			51 D1 000BF	CMPL	IDX, ITR_CNT	0325
			08 AE 9F 000C2	BLEQU	6\$	
		04	AE 9F 000C4	PUSHAB	FAOLST	0343
		08	AE 9F 000C7	PUSHAB	OUTDSC	
		0000'	AE 9F 000CA	PUSHAB	OUTDSC	
	66		CF 9F 000CD	PUSHAB	P.AAH	
		04	FB 000D1	CALLS	#4, SYSSFAOL	
	67		5E DD 000D4	PUSHL	SP	0345
		01	FB 000D6	CALLS	#1, LIB\$PUT_OUTPUT	
		8A	11 000D9	BRB	4\$	0316
			04 000DB	RET		0347

: Routine Size: 220 bytes, Routine Base: \$CODE\$ + 0080

SRELMC

EVLMAIN
V04-000

DECnet Event Logger Main Module
EVL\$PRINTLOG Print a Data Message to the Log

K 7
16-Sep-1984 01:35:04
14-Sep-1984 12:28:48

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EVL.SRC]EVLMAIN.B32;1

Page 11
(6)

: 353 0348 1 END
: 354 0349 0 ELUDOM

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
SGLOBALS	8	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
SPLITS	124	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
SCODES	348	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	Symbols			Pages Mapped	Processing Time
	Total	Loaded	Percent		
\$255\$DUA28:[EVL.OBJ]EVLIBRARY.L32;1	191	2	1	14	00:00.1
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	9	0	581	00:01.3

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:EVLM MAIN/OBJ=OBJ\$:EVLM MAIN MSRC\$:EVLM MAIN/UPDATE=(ENH\$:EVLM MAIN)

Size: 348 code + 132 data bytes
Run Time: 00:08.7
Elapsed Time: 00:20.2
Lines/CPU Min: 2398
Lexemes/CPU-Min: 18522
Memory Used: 86 pages
Compilation Complete

0156 AH-BT13A-SE
VAX/VMS V4.0

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